



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

September 18, 2012

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

Raymond Flores
FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Brenda Cook, Superfund Project Manager (6SF-TR)
Gary Moore, On-Scene Coordinator (6SF-PR)

Site: DELTA SHIPYARD

Case#: 42764

SDG#: MF6AC0

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.



9522649

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: September 18, 2012
TO: Marvely Humphrey, ESAT PO, Region 6 EPA
FROM: Linda Hoffman, Data Reviewer, ESAT
THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT *✓ NO 67*
SUBJECT: CLP Data Review

Contract No.: EP-W-06-030
TO No.: 030
Task/Sub-Task: 2-12
ESAT Doc. No.: B030-212-0085
TDF No.: 6-12-493B
ESAT File No.: I-0574

Attached is the data review summary for Case # 42764

SDG # MF6AC0

Site Delta Shipyard

COMMENTS:

I. LEVEL OF DATA REVIEW

Modified CADRE Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS found a few contractually noncompliant items that did not affect technical usability of the results.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

Some results were qualified for technical problems. The significant problems are addressed below.

- A. The antimony and arsenic matrix spike recoveries were outside the QC limits.
- B. The barium serial dilution difference exceeded the expanded QC limit for soils.

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INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	42764	SITE	Delta Shipyard
LABORATORY	CHEM	NO. OF SAMPLES	20
CONTRACT#	EP-W-09-038	MATRIX	1 Water/19 Soil
SDG#	MF6AC0	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2GC	COMPLETION DATE	September 18, 2012

SAMPLE NO.	MF6AC0	MF6AD1	MF6AD5	MF6AD9	MF6AE5
	MF6AC8	MF6AD2	MF6AD6	MF6AE0	MF6AF2
	MF6AC9	MF6AD3	MF6AD7	MF6AE1	MF6AF3
	MF6AD0	MF6AD4	MF6AD8	MF6AE2	MF6AF5

DATA ASSESSMENT SUMMARY

	ICP	HG
1. HOLDING TIMES	O	O
2. CALIBRATIONS	O	O
3. BLANKS	O	O
4. MATRIX SPIKES	M	O
5. DUPLICATE ANALYSIS	M	O
6. ICP QC	M	
7. LCS	O	
8. SAMPLE VERIFICATION	O	O
9. OTHER QC	N/A	N/A
10. OVERALL ASSESSMENT	M	O

O = Data had no problems.

M = Data qualified due to major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: The antimony matrix spike recovery was below the QC limit, and the arsenic matrix spike recovery was above the QC limit. The manganese laboratory duplicate difference exceeded the expanded QC limit for soils. The barium, calcium, iron, magnesium, manganese, and zinc serial dilution differences exceeded the expanded QC limit for soils.

**COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW**

CASE 42764 SDG MF6AC0 SITE Delta Shipyard LAB CHEM

COMMENTS: This SDG consisted of 1 water and 19 soil samples for total metals (by ICP-AES) and mercury analyses following CLP SOW ISM01.3. The sampler designated soil sample MF6AC0 for laboratory QC analyses and water sample MF6AE5 as a rinsate.

The SOW requires that the soil sample results be adjusted for moisture content and dilution, which raised the adjusted QLs above the CRQLs specified in the SOW. The adjusted CRQLs were reported by the laboratory and are referred to as SQLs in this report.

The analytes of concern with the CRQLs, which are in parentheses, as the desired detection limits were arsenic (1 mg/kg) and barium (20 mg/kg). All soil samples contained both analytes of concern at concentrations over the desired detection limits. The laboratory diluted (up to 20X) and reanalyzed all soil samples except samples MF6AD1, MF6AD2, MF6AD7, and MF6AE2 because of high concentrations of barium, calcium, and/or iron.

Modified CADRE review was performed for this package as requested by the Region. For this review option, the CCS and CADRE primarily determine the laboratory contractual compliance and the technical usability of the sample results, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the CADRE report. The CADRE narrative for the SDG is attached to this report as an addendum for additional information.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

- Because of laboratory blank readings, the aluminum result <CRQL for sample MF6AE5 should be considered undetected and was flagged "U" at the CRQL on the DST.
- Rinsate sample MF6AE5 contained calcium and mercury at concentrations below the CRQLs. The reviewer was unable to assess the effect of equipment contamination because information associating the samples with the rinsate was unavailable.
- The reviewer qualified the antimony soil sample results as estimated and biased low because the antimony pre-digestion matrix spike recovery was below the 75% QC limit and the post-digestion matrix spike analysis indicated a low bias effect.
- The reviewer qualified the arsenic soil sample results as estimated because the arsenic pre-digestion matrix spike recovery was above the QC limit. The post-digestion matrix spike analysis did not indicate a bias effect.

**INORGANIC QA REVIEW
CONTINUATION PAGE**

CASE 42764 SDG MF6AC0 SITE Delta Shipyard LAB CHEM

- The reviewer qualified the manganese soil sample results as estimated because the manganese laboratory duplicate difference exceeded the expanded QC limit for soils.
- The reviewer qualified the soil sample results for barium, calcium, iron, magnesium, manganese, and zinc as estimated because the serial dilution differences for these analytes exceeded the expanded QC limit for soils.

OVERALL ASSESSMENT: Some results were qualified for all soil samples because of problems with matrix spike recoveries, a laboratory duplicate difference, and serial dilution differences. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist.

The laboratory response to the CCS was received and placed at the beginning of the data package. The received pages should be added to the CSF package as additional information. The laboratory was also contacted by the Region for a reporting issue (see Resubmission Request). The laboratory responded to the Regional request, performed the necessary reanalysis, and submitted the required forms and raw data. The resubmitted pages 2251 - 2385, which the reviewer paginated, were placed at the beginning of the data package and should be added to the end of the CSF package. The DST included in this report is the final version.

INORGANIC ACRONYMS

CADRE	Computer-Aided Data Review and Evaluation
CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see
Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water
Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- L** Reported concentration is between the MDL and the CRQL.
- J** Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.
- R** Result is unusable.
- F** A possibility of a false negative exists.
- UC** Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.
- +** High biased. Actual concentration may be lower than the concentration reported.
- Low biased. Actual concentration may be higher than the concentration reported.
- W** The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QC CODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRLQ	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7429905	Aluminum	200	U	ug/L	200	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440360	Antimony	60.0	U	ug/L	60.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440382	Arsenic	10.0	U	ug/L	10.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AES	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440393	Barium	200	U	ug/L	200	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440417	Beryllium	5.0	U	ug/L	5.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440439	Cadmium	5.0	U	ug/L	5.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440702	Calcium	50.6	LJ	ug/L	5000	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440473	Chromium	10.0	U	ug/L	10.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440484	Cobalt	50.0	U	ug/L	50.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440508	Copper	25.0	U	ug/L	25.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7439896	Iron	100	U	ug/L	100	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7439921	Lead	10.0	U	ug/L	10.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7439954	Magnesium	5000	U	ug/L	5000	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7439965	Manganese	15.0	U	ug/L	15.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/16/2012	16:57:00	7439976	Mercury	0.015	LJ	ug/L	0.20	08/07/2012	08/15/2012	08/09/2012	Low	0.0	100	100	CV	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440020	Nickel	40.0	U	ug/L	40.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440097	Potassium	5000	U	ug/L	5000	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7782492	Selenium	35.0	U	ug/L	35.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440224	Silver	10.0	U	ug/L	10.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440235	Sodium	5000	U	ug/L	5000	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440280	Thallium	25.0	U	ug/L	25.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440622	Vanadium	50.0	U	ug/L	50.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6AE5	D3749-19	W	Field_Blank	08/14/2012	13:29:50	7440666	Zinc	60.0	U	ug/L	60.0	08/07/2012	08/10/2012	08/09/2012	Low	0.0	50	50	P	DSE-06-96-435
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7429905	Aluminum	22900		mg/kg	21.7	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440360	Antimony	2.5	LJ	mg/kg	6.5	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440382	Arsenic	8.1	J	mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440393	Barium	426	J	mg/kg	21.7	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440417	Beryllium	1.1		mg/kg	0.54	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440439	Cadmium	1.0		mg/kg	0.54	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440702	Calcium	13000	J	mg/kg	542	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440473	Chromium	22.3		mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440484	Cobalt	22.4		mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440508	Copper	16.0		mg/kg	2.7	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/18/2012	15:10:44	7439896	Iron	80800	J	mg/kg	54.2	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7439921	Lead	41.7		mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7439954	Magnesium	7090	J	mg/kg	542	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7439965	Manganese	2430	J	mg/kg	1.6	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/17/2012	10:25:00	7439976	Mercury	0.038	LJ	mg/kg	0.16	08/07/2012	08/15/2012	08/09/2012	Low	63.2	.5	100	CV	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440020	Nickel	37.7		mg/kg	4.3	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440097	Potassium	3140		mg/kg	542	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7782492	Selenium	3.3	LJ	mg/kg	3.8	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440224	Silver	0.79	LJ	mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440235	Sodium	1400		mg/kg	542	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440280	Thallium	0.57	LJ	mg/kg	2.7	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-01	S	Field_Sample	08/14/2012	18:29:34	7440622	Vanadium	48.8		mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	63.2	1.46	100	P	DSE-13-72-515
42764	MF6AC0	MF6ACD	D3749-04	S	Field_Sample	08/14/2012	18:51:45	7429905	Aluminum	15200		mg/kg	21.9	08/07/2012	08/13/2012	08/09/2012	Low	67.0	1.36	100	P	DSE-16-12-515
42764	MF6AC0	MF6ACD	D3749-04	S	Field_Sample	08/14/2012	18:51:45	7440360	Antimony	3.5	LJ	mg/kg	6.6	08/07/2012	08/13/2012	08/09/2012	Low	67.0	1.36	100	P	DSE-16-

42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440360	Antimony	7.0	mg/kg	6.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440382	Arsenic	36.1	mg/kg	1.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/18/2012	15:32:18	7440393	Barium	13700	mg/kg	402	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440417	Beryllium	0.75	mg/kg	0.50	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440439	Cadmium	1.0	mg/kg	0.50	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440702	Calcium	7180	mg/kg	503	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440473	Chromium	29.4	mg/kg	1.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440484	Cobalt	11.1	mg/kg	5.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440508	Copper	46.1	mg/kg	2.5	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7439896	Iron	19600	mg/kg	10.1	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7439921	Lead	189	mg/kg	1.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7439954	Magnesium	5550	J	mg/kg	503	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7439965	Manganese	295	J	mg/kg	1.5	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/17/2012	10:40:00	7439976	Mercury	0.23	mg/kg	0.13	08/07/2012	08/15/2012	08/09/2012	Low	71.5	.54	100	CV	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440020	Nickel	33.4	mg/kg	4.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440097	Potassium	2250	mg/kg	503	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7782492	Selenium	1.6	LJ	mg/kg	3.5	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440224	Silver	0.74	LJ	mg/kg	1.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440235	Sodium	600	mg/kg	503	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440280	Thallium	2.5	U	mg/kg	2.5	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440622	Vanadium	32.0	mg/kg	5.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515	
42764	MF6AC0	MF6AC9	D3749-05	S	Field_Sample	08/14/2012	18:59:17	7440666	Zinc	226	J	mg/kg	6.0	08/07/2012	08/13/2012	08/09/2012	Low	71.5	1.39	100	P	DSE-16-24-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7429905	Aluminum	15500	mg/kg	24.3	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440360	Antimony	6.6	LJ	mg/kg	7.3	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440382	Arsenic	27.6	J	mg/kg	1.2	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/18/2012	15:36:43	7440393	Barium	9530	J	mg/kg	243	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440417	Beryllium	1.1	mg/kg	0.61	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440439	Cadmium	0.73	mg/kg	0.61	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440702	Calcium	7610	J	mg/kg	607	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440473	Chromium	23.6	mg/kg	1.2	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440484	Cobalt	12.4	mg/kg	6.1	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440508	Copper	36.0	mg/kg	3.0	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7439898	Iron	23400	J	mg/kg	12.1	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7439921	Lead	162	mg/kg	1.2	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7439954	Magnesium	5790	J	mg/kg	607	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7439965	Manganese	343	J	mg/kg	1.8	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/17/2012	10:42:00	7439976	Mercury	0.19	mg/kg	0.17	08/07/2012	08/15/2012	08/09/2012	Low	58.8	.5	100	CV	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440202	Nickel	32.9	mg/kg	4.9	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440409	Potassium	2510	mg/kg	607	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7782492	Selenium	1.6	LJ	mg/kg	4.3	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440224	Silver	0.51	LJ	mg/kg	1.2	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440235	Sodium	730	mg/kg	607	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440280	Thallium	3.0	U	mg/kg	3.0	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440622	Vanadium	35.3	mg/kg	6.1	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515	
42764	MF6AC0	MF6AD0	D3749-06	S	Field_Sample	08/14/2012	19:06:46	7440666	Zinc	158	J	mg/kg	7.3	08/07/2012	08/13/2012	08/09/2012	Low	58.8	1.4	100	P	DSE-16-48-515
42764	MF6AC0	MF6AD1	D3749-07	S	Field_Sample	08/14/2012	19:27:06	7429905	Aluminum	20900	mg/kg	27.0	08/07/2012	08/13/2012	08/09/2012	Low	52.2	1.42	100	P	DSE-16-72-515	
42764	MF6AC0	MF6AD1	D3749-07	S	Field_Sample	08/14/2012	19:27:06	7440360	Antimony	1.6	LJ	mg/kg	8.1	08/07/2012	08/13/2012	08/09/2012	Low	52.2	1.42	100	P	DSE-16-72-515
42764	MF6AC0	MF6AD1	D3749-07	S	Field_Sample	08/14/2012	19:27:06	7440382	Arsenic	9.5	J	mg/kg	1.3	08/07/2012	08/13/2012	08/09/2012	Low	52.2	1.42	100	P	DSE-16-72-515
42764	MF6AC0	MF6AD1																				

42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440360	Antimony	1.3	LJ-	mg/kg	5.3	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440382	Arsenic	7.5	J	mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440393	Barium	306	J	mg/kg	17.8	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440417	Beryllium	1.2		mg/kg	0.44	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440439	Cadmium	0.26	LJ	mg/kg	0.44	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440702	Calcium	9150	J	mg/kg	444	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440473	Chromium	19.4		mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440484	Cobalt	10.2		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440508	Copper	30.4		mg/kg	2.2	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7439986	Iron	20200	J	mg/kg	8.9	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7439921	Lead	26.8		mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7439954	Magnesium	7520	J	mg/kg	444	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7439965	Manganese	215	J	mg/kg	1.3	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/17/2012	10:46:00	7439976	Mercury	0.035	LJ	mg/kg	0.26	08/07/2012	08/15/2012	08/09/2012	Low	.55	100	CV		DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440020	Nickel	37.7		mg/kg	3.6	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440097	Potassium	3080		mg/kg	444	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7782492	Selenium	2.3	LJ	mg/kg	3.1	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440224	Silver	0.16	LJ	mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440235	Sodium	3310		mg/kg	444	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440280	Thallium	2.2	U	mg/kg	2.2	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440622	Vanadium	50.3		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD2	D3749-08	S	Field_Sample	08/14/2012	19:33:21	7440666	Zinc	83.6	J	mg/kg	5.3	08/07/2012	08/13/2012	08/09/2012	Low	35.4	3.18	100	P	DSE-16-96-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7429905	Aluminum	10800		mg/kg	17.6	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440360	Antimony	6.6	J-	mg/kg	5.3	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440382	Arsenic	24.5	J	mg/kg	0.88	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/18/2012	15:41:11	7440393	Barium	12200	J	mg/kg	352	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440417	Beryllium	0.83		mg/kg	0.44	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440439	Cadmium	3.5		mg/kg	0.44	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440702	Calcium	17700	J	mg/kg	439	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440743	Chromium	143		mg/kg	0.88	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440484	Cobalt	11.5		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440508	Copper	71.9		mg/kg	2.2	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7439896	Iron	25400	J	mg/kg	8.8	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7439921	Lead	518		mg/kg	0.88	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7439954	Magnesium	3810	J	mg/kg	439	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7439965	Manganese	565	J	mg/kg	1.3	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/17/2012	10:48:00	7439976	Mercury	0.84		mg/kg	0.11	08/07/2012	08/15/2012	08/09/2012	Low	.59	100	CV		DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440020	Nickel	32.7		mg/kg	3.5	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440097	Potassium	1680		mg/kg	439	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7782492	Selenium	1.3	LJ	mg/kg	3.1	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440224	Silver	2.0		mg/kg	0.88	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440235	Sodium	516		mg/kg	439	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440280	Thallium	2.2	U	mg/kg	2.2	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440622	Vanadium	26.2		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD3	D3749-09	S	Field_Sample	08/14/2012	19:39:47	7440666	Zinc	686	J	mg/kg	5.3	08/07/2012	08/13/2012	08/09/2012	Low	77.4	1.47	100	P	DSE-06-12-515
42764	MF6AC0	MF6AD4	D3749-10	S	Field_Sample	08/14/2012	19:46:22	7429905	Aluminum	12600		mg/kg	18.1	08/07/2012	08/13/2012	08/09/2012	Low	78.9	1.4	100	P	DSE-06-24-515
42764	MF6AC0	MF6AD4	D3749-10	S	Field_Sample	08/14/2012	19:46:22	7440360	Antimony	3.3	LJ-	mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	78.9	1.4	100	P	DSE-06-24-515
42764	MF6AC0	MF6AD4	D3749-10	S	Field_Sample	08/14/2012	19:46:22	7440382	Arsenic	16.4	J											

42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440360	Antimony	4.2	LJ-	mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440382	Arsenic	20.9	J	mg/kg	0.90	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/18/2012	15:50:08	7440393	Barium	8650	J	mg/kg	180	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440417	Beryllium	0.54		mg/kg	0.45	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440439	Cadmium	1.6		mg/kg	0.45	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/18/2012	15:50:08	7440702	Calcium	88800	J	mg/kg	4510	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440473	Chromium	39.9		mg/kg	0.90	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440484	Cobalt	7.6		mg/kg	4.5	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440508	Copper	76.8		mg/kg	2.3	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7439896	Iron	18400	J	mg/kg	9.0	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7439921	Lead	231		mg/kg	0.90	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7439954	Magnesium	3030	J	mg/kg	451	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7439965	Manganese	840	J	mg/kg	1.4	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/17/2012	10:52:00	7439976	Mercury	0.29		mg/kg	0.11	08/07/2012	08/15/2012	08/09/2012	Low	82.1	.57	100	CV	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440020	Nickel	22.3		mg/kg	3.6	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440097	Potassium	1440		mg/kg	451	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7782492	Selenium	0.66	LJ	mg/kg	3.2	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440224	Silver	0.82	LJ	mg/kg	0.90	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440235	Sodium	1500		mg/kg	451	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440280	Thallium	2.3	U	mg/kg	2.3	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440622	Vanadium	18.9		mg/kg	4.5	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD5	D3749-11	S	Field_Sample	08/14/2012	19:53:07	7440666	Zinc	421	J	mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	82.1	1.35	100	P	DSE-06-48-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7429905	Aluminum	12200		mg/kg	21.8	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440360	Antimony	4.1	LJ-	mg/kg	6.5	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440382	Arsenic	20.1	J	mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/18/2012	16:03:18	7440393	Barium	11000	J	mg/kg	218	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440417	Beryllium	0.83		mg/kg	0.54	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440439	Cadmium	1.9		mg/kg	0.54	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440702	Calcium	13900	J	mg/kg	545	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440473	Chromium	65.3		mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440484	Cobalt	10.9		mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440508	Copper	115		mg/kg	2.7	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7439896	Iron	25200	J	mg/kg	10.9	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7439921	Lead	280		mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7439954	Magnesium	4270	J	mg/kg	545	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7439965	Manganese	521	J	mg/kg	1.6	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/17/2012	10:54:00	7439976	Mercury	0.38		mg/kg	0.14	08/07/2012	08/15/2012	08/09/2012	Low	62.0	.57	100	CV	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440020	Nickel	31.5		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440097	Potassium	2000		mg/kg	545	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7782492	Selenium	2.0	LJ	mg/kg	3.8	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440224	Silver	1.0	LJ	mg/kg	1.1	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440235	Sodium	1570		mg/kg	545	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440280	Thallium	2.7	U	mg/kg	2.7	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440622	Vanadium	29.6		mg/kg	5.4	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD6	D3749-12	S	Field_Sample	08/14/2012	19:59:39	7440666	Zinc	511	J	mg/kg	6.5	08/07/2012	08/13/2012	08/09/2012	Low	62.0	1.48	100	P	DSE-06-72-515
42764	MF6AC0	MF6AD7	D3749-13	S	Field_Sample	08/14/2012	20:06:18	7440360	Antimony	1.5	LJ-	mg/kg	7.1	08/07/2012	08/13/2012	08/09/2012	Low	58.2	1.45	100	P	DSE-06-96-515
42764	MF6AC0	MF6AD7	D3749-13	S	Field_Sample	08/14/2012	20:06:18	7440382	Arsenic	5.9	J	mg/kg	1.2	08/07/2012	08/13/2012	08/09/2012	Low	58.2	1.45	100	P	DSE-06-96-515
42764	MF6AC0	MF6AD7	D3749-13	S	Field_Sample	08/14/2012	20:06:18	7440393	Barium	428</												

42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7429905	Aluminum	13200		mg/kg	17.8	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440360	Antimony	3.1	LJ-	mg/kg	5.3	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440382	Arsenic	14.5	J	mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/18/2012	16:07:43	7440393	Barium	12600	J	mg/kg	356	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440417	Beryllium	0.72		mg/kg	0.44	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440439	Cadmium	1.1		mg/kg	0.44	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSÉ-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440702	Calcium	8530	J	mg/kg	445	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440473	Chromium	50.3		mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440484	Cobalt	9.7		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440508	Copper	48.8		mg/kg	2.2	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7439896	Iron	23800	J	mg/kg	8.9	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7439921	Lead	153		mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7439954	Magnesium	4250	J	mg/kg	445	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7439965	Manganese	346	J	mg/kg	1.3	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/17/2012	10:57:00	7439976	Mercury	0.23		mg/kg	0.12	08/07/2012	08/15/2012	08/09/2012	Low	77.0	.52	100	CV	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440020	Nickel	29.8		mg/kg	3.6	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440097	Potassium	2150		mg/kg	445	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7782492	Selenium	1.6	LJ	mg/kg	3.1	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440224	Silver	0.69	LJ	mg/kg	0.89	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440235	Sodium	573		mg/kg	445	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440280	Thallium	2.2	U	mg/kg	2.2	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440622	Vanadium	31.2		mg/kg	4.4	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD8	D3749-14	S	Field_Sample	08/14/2012	20:12:35	7440666	Zinc	291	J	mg/kg	5.3	08/07/2012	08/13/2012	08/09/2012	Low	77.0	1.46	100	P	DSE-08-12-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7429905	Aluminum	13400		mg/kg	18.4	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7439030	Antimony	2.6	LJ-	mg/kg	5.5	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440382	Arsenic	19.3	J	mg/kg	0.92	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/18/2012	16:12:13	7440393	Barium	8980	J	mg/kg	184	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440417	Beryllium	0.80		mg/kg	0.46	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440439	Cadmium	0.68		mg/kg	0.46	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440702	Calcium	5660	J	mg/kg	460	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440473	Chromium	29.7		mg/kg	0.92	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440484	Cobalt	15.9		mg/kg	4.6	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440508	Copper	32.6		mg/kg	2.3	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7439896	Iron	21000	J	mg/kg	9.2	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7439921	Lead	162		mg/kg	0.92	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7439954	Magnesium	4320	J	mg/kg	460	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7439965	Manganese	341	J	mg/kg	1.4	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/17/2012	10:59:00	7439976	Mercury	0.12	LJ	mg/kg	0.12	08/07/2012	08/15/2012	08/09/2012	Low	78.8	.53	100	CV	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440020	Nickel	30.7		mg/kg	3.7	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440097	Potassium	1980		mg/kg	460	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7782492	Selenium	1.7	LJ	mg/kg	3.2	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440224	Silver	0.68	LJ	mg/kg	0.92	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440235	Sodium	690		mg/kg	460	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440280	Thallium	2.3	U	mg/kg	2.3	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440622	Vanadium	30.5		mg/kg	4.6	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AD9	D3749-15	S	Field_Sample	08/14/2012	20:19:03	7440666	Zinc	166	J	mg/kg	5.5	08/07/2012	08/13/2012	08/09/2012	Low	78.8	1.38	100	P	DSE-08-24-515
42764	MF6AC0	MF6AE0	D3749-16	S	Field_Sample	08/14/2012	20:25:27	7440360	Antimony	2.3	LJ-	mg/kg	6.8	08/07/2012	08/13/2012	08/09/2012	Low	62.7	1.41	100	P	DSE-08-48-515
42764	MF6AC0	MF6AE0	D3749-16	S	Field_Sample	08/14/2012	20:25:27	7440382	Arsenic													

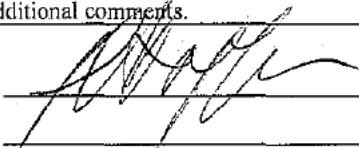
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440360	Antimony	2.7	mg/kg	8.1	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440382	Arsenic	14.8	mg/kg	1.3	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/18/2012 16:21:17	7440393	Barium	7030	mg/kg	134	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440417	Beryllium	1.0	mg/kg	0.67	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440439	Cadmium	0.55	mg/kg	0.67	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440702	Calcium	7770	mg/kg	671	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440473	Chromium	28.8	mg/kg	1.3	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440484	Cobalt	10.4	mg/kg	6.7	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440508	Copper	33.2	mg/kg	3.4	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7439996	Iron	27800	mg/kg	13.4	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7439921	Lead	88.9	mg/kg	1.3	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7439954	Magnesium	5260	mg/kg	671	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7439965	Manganese	282	mg/kg	2.0	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/17/2012 11:03:00	7439976	Mercury	0.10	mg/kg	0.17	08/07/2012 08/15/2012 08/09/2012	Low	55.2	52	100	CV	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440020	Nickel	33.8	mg/kg	5.4	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440097	Potassium	2640	mg/kg	671	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7782492	Selenium	2.2	mg/kg	4.7	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440224	Silver	0.39	mg/kg	1.3	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440235	Sodium	1490	mg/kg	671	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440280	Thallium	3.4	U	mg/kg	3.4	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440622	Vanadium	40.9	mg/kg	6.7	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515	
42764	MF6AC0	MF6AE1	D3749-17	S	Field_Sample	08/14/2012 20:31:54	7440668	Zinc	200	J	mg/kg	8.1	08/07/2012 08/13/2012 08/09/2012	Low	55.2	1.35	100	P	DSE-08-72-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7429905	Aluminum	23800	mg/kg	19.0	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440360	Antimony	1.4	LJ	mg/kg	5.7	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440382	Arsenic	9.6	J	mg/kg	0.95	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440393	Barium	326	J	mg/kg	19.0	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440417	Beryllium	1.4	mg/kg	0.47	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440439	Cadmium	0.37	LJ	mg/kg	0.47	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440702	Calcium	6910	J	mg/kg	475	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440473	Chromium	26.3	mg/kg	0.95	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440484	Cobalt	9.2	mg/kg	4.7	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440508	Copper	28.8	mg/kg	2.4	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440622	Iron	21000	J	mg/kg	9.5	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7439921	Lead	30.7	mg/kg	0.95	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7439954	Magnesium	6770	J	mg/kg	475	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7439965	Manganese	218	J	mg/kg	1.4	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/17/2012 11:05:00	7439976	Mercury	0.042	LJ	mg/kg	0.18	08/07/2012 08/15/2012 08/09/2012	Low	49.2	56	100	CV	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440020	Nickel	36.9	mg/kg	3.8	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440097	Potassium	35860	mg/kg	475	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7782492	Selenium	1.8	LJ	mg/kg	3.3	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440224	Silver	0.95	U	mg/kg	0.95	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440235	Sodium	2270	mg/kg	475	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440280	Thallium	2.4	U	mg/kg	2.4	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440622	Vanadium	43.9	mg/kg	4.7	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515	
42764	MF6AC0	MF6AE2	D3749-18	S	Field_Sample	08/14/2012 20:38:20	7440668	Zinc	108	J	mg/kg	5.7	08/07/2012 08/13/2012 08/09/2012	Low	49.2	2.14	100	P	DSE-08-96-515
42764	MF6AC0	MF6AF2	D3749-20	S	Field_Sample	08/14/2012 20:57:00	7429905	Aluminum	17100	mg/kg	17.8	08/08/2012 08/13/2012 08/09/2012	Low	76.4	1.47	100	P	DSE-20-12-515	
42764	MF6AC0	MF6AF2	D3749-20	S	Field_Sample	08/14/2012 20:57:00	7440360	Antimony	3.6	LJ	mg/kg	5.3	08/08/2012 08/13/2012 08/09/2012	Low	76.4	1.47	100	P	DSE-20-12-515
42764	MF6AC0	MF6AF2	D3749-20	S	Field_Sample	08/14/2012 20:57:00	7440382	Arsenic	31.7	J	mg/kg	0.89	08/08/2012 08/13/2012 08/09/2012	Low	76.4	1.47	100	P	DSE-20-12-515
42764	MF6AC0	MF6AF2	D3749-20	S	Field_Sample	08/18/2012 16:25:49	7440393	Barium	7660	J	mg/kg	178	08/08/2012 08/13/2012 08/09/2012	Low	76.4	1.47	100	P	DSE-20-12-515
42764	MF6AC0	MF6AF2	D3749-20	S	Field_Sample	08/14/2012 20:57:00	7440417	Beryllium	0.93	mg/kg	0.45	08/08/2012 08/13/2012 08/09/2012	Low	76.4	1.47	100	P	DSE-20-12-515	
42764	MF6AC0	MF6AF2	D3749-20	S	Field_Sample	08/14/2012 20:57:00	7440439	Cadmium	0.69	mg/kg	0.45	08/08/2012 08/13/2012 08/09/2012	Low</td						

42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440360	Antimony	1.7	LJ	mg/kg	6.1		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440382	Arsenic	10.3	J	mg/kg	1.0		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/18/2012	16:30:23	7440393	Barium	3830	J	mg/kg	101		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440417	Beryllium	1.6		mg/kg	0.51		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440439	Cadmium	0.43	LJ	mg/kg	0.51		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440702	Calcium	5060	J	mg/kg	505		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440473	Chromium	21.7		mg/kg	1.0		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440484	Cobalt	14.7		mg/kg	5.1		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440508	Copper	23.2		mg/kg	2.5		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7439896	Iron	27200	J	mg/kg	10.1		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7439921	Lead	54.3		mg/kg	1.0		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7439954	Magnesium	6030	J	mg/kg	505		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7439965	Manganese	367	J	mg/kg	1.5		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/17/2012	11:09:00	7439976	Mercury	0.13		mg/kg	0.13		08/08/2012	08/15/2012	08/09/2012	Low	67.3	.58	100	CV	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440020	Nickel	38.0		mg/kg	4.0		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440097	Potassium	2700		mg/kg	505		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7782492	Selenium	2.1	LJ	mg/kg	3.5		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440224	Silver	0.18	LJ	mg/kg	1.0		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440235	Sodium	437	LJ	mg/kg	505		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440280	Thallium	2.5	U	mg/kg	2.5		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440622	Vanadium	41.4		mg/kg	5.1		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-21	S	Field_Sample	08/14/2012	21:03:20	7440666	Zinc	113	J	mg/kg	6.1		08/08/2012	08/13/2012	08/09/2012	Low	67.3	1.47	100	P	DSE-20-24-515
42764	MF6AC0	MF6AF3	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7429905	Aluminum	20300		mg/kg	16.1		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF3	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440360	Antimony	2.0	LJ	mg/kg	4.8		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440382	Arsenic	16.9	J	mg/kg	0.81		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/18/2012	16:34:56	7440393	Barium	2190	J	mg/kg	161		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440417	Beryllium	1.4		mg/kg	0.40		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440439	Cadmium	0.89		mg/kg	0.40		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440702	Calcium	10500	J	mg/kg	403		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440473	Chromium	22.6		mg/kg	0.81		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440484	Cobalt	22.2		mg/kg	4.0		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440508	Copper	32.0		mg/kg	2.0		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/18/2012	16:34:56	7439896	Iron	39400	J	mg/kg	80.6		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7439921	Lead	46.7		mg/kg	0.81		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7439954	Magnesium	6760	J	mg/kg	403		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7439965	Manganese	322	J	mg/kg	1.2		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/17/2012	11:11:00	7439976	Mercury	0.024	LJ	mg/kg	0.27		08/08/2012	08/15/2012	08/09/2012	Low	36.5	.51	100	CV	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440020	Nickel	63.8		mg/kg	3.2		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440097	Potassium	3310		mg/kg	403		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7782492	Selenium	2.4	LJ	mg/kg	2.8		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440224	Silver	0.20	LJ	mg/kg	0.81		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440235	Sodium	851		mg/kg	403		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440280	Thallium	2.0	U	mg/kg	2.0		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440622	Vanadium	48.6		mg/kg	4.0		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515
42764	MF6AC0	MF6AF5	D3749-22	S	Field_Sample	08/14/2012	21:09:41	7440666	Zinc	118	J	mg/kg	4.8		08/08/2012	08/13/2012	08/09/2012	Low	36.5	3.4	100	P	DSE-20-72-515

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No.	42764	SDG No.	MF6AC0	SDG Nos. To Follow	Mod. Ref. No.	Date Rec	08/30/12
EPA Lab ID:	CHEM		ORIGINALS		YES	NO	N/A
Lab location:	Mountainside, NJ		CUSTODY SEALS				
Region:	6	Audit No.:	42764/MF6AC0		1. Present on package?	X	
Resubmitted CSF?	Yes	No	X	2. Intact upon receipt?	X		
Box No(s):	1		FORM DC-2				
COMMENTS:			3. Numbering scheme accurate?		X		
			4. Are enclosed documents listed?		X		
			5. Are listed documents enclosed?		X		
			FORM DC-1				
			6. Present?		X		
			7. Complete?		X		
			8. Accurate?		X		
			TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)				
			9. Signed?		X		
			10. Dated?		X		
			AIRBILLS/AIRBILL STICKER				
			11. Present?		X		
			12. Signed?		X		
			13. Dated?		X		
			SAMPLE TAGS				
			14. Does DC-1 list tags as being included?		X		
			15. Present?		X		
			OTHER DOCUMENTS				
			16. Complete?		X		
			17. Legible?		X		
			18. Original?		X		
			18a. If "NO", does the copy indicate where original documents are located?				X
Over for additional comments.							

Audited



Audited

Signature

Linda Hoffman/ESAT Data Reviewer

Date 09/06/12

Date _____

Printed Name/Title

DC-2

In Reference To Case No(s):
42764 SDG: MF6AC0 (I-0574)

**Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM**

Resubmission Request

Laboratory Name:	CHEM
Lab Contact:	Divya Mehta
Region:	6
Regional Contact:	Raymond Flores - EPA
ESAT Reviewer:	Linda Hoffman - ESAT

In reference to data for the following fractions:

ICP-AES

Summary of Questions/Issues:

In the diluted reanalysis of sample MF6AC9, barium was diluted to a concentration below the CRQL. According to the SOW (ISM01.3, p. D-6/Introduction, sec. 1.91), analyte concentrations that exceed the calibrated range are not to be diluted below the CRQL. Furthermore, concentrations of other analytes with high concentrations in the undiluted sample are significantly different from those in the corresponding 20X diluted analysis. Please verify that the correct sample was used when making the dilution for this sample and submit a contractually compliant barium result.

NOTE: Any submitted laboratory resubmission should be clearly marked as "Additional Data" with a cover letter included describing what data is being delivered, which Case the data pertains, and who requested the data (ISM01.3, p. B-8, sec. 2.2.1). Custody seals are required only for regular mail shipments.

Please respond to the above item **within 6 business days** (ISM01.3, p. B-8, sec. 2.2) by e-mail to Flores.Raymond@epa.gov. If you have any questions, please contact Mr. Flores at 281-983-2139.

Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 8/7/2012

CarrierName: FedEx

Airbill No: 793875486827

CHAIN OF CUSTODY RECORD

Delta Shipyard/LA

Case #: 42764

Cooler #: 3

No: 6-080712-121207-0014

Lab: ChemTech Consulting Group

Lab Contact: Shehat Mehta

Lab Phone: 908-789-8900

Sample(s) to be used for Lab QC: MF6AC0

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=Total Metals + Hg

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 8/7/2012

CarrierName: FedEx

AirbillNo: 793875483655

CHAIN OF CUSTODY RECORD

Delta Shipyard/LA

Case #: 42764

Cooler #: 4

No: 6-080712-133159-0017

Lab: ChemTech Consulting Group

Lab Contact: Snehal Mehta

Lab Phone: 908-789-8900

Special Instructions: Field QC: MF6AE5

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg = Total Metals + Hg

USEPA CLP Inorganics COC (REGION COPY)

DateShipped: 8/8/2012

CarrierName: FedEx

AirbillNo: 793879870044

CHAIN OF CUSTODY RECORD

Delta_Shipyard/LA

Case #: 42764

Cooler #: *

No: 6-080812-125833-0024

Lab: ChemTech Consulting Group

Lab Contact: Snehal Mehta

Lab Phone: 908-789-8900

Sample(s) to be used for Lab QC: MF6AF4

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TM + Hg=Total Metals + Hg

ADDENDUM

CADRE NARRATIVE

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF6AC0 Case 42764 Contract EPW09038 Region 6 DDTID 158613 SOW ISM01.3

Data Review Reports**Blanks**

Blanks	Hg
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5 Mercury MF6AC0 , MF6AC0D , MF6AC0S , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD3 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5 Mercury MF6AC0 , MF6AC0D , MF6AC0S , MF6AC8 , MF6AC9 , MF6AD0 , MF6AD1 , MF6AD2 , MF6AD3 , MF6AD4 , MF6AD5 , MF6AD6 , MF6AD7 , MF6AD8 , MF6AD9 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF2 , MF6AF3 , MF6AF5

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF6AC0 Case 42764 Contract EPW09038 Region 6 DDTID 158613 SOW ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBW01, MF6AE5, PBS01
	Vanadium PBW01, MF6AE5, PBS01
	Sodium PBW01, MF6AE5, PBS01
	Chromium PBW01, MF6AE5, PBS01
	Barium PBW01, MF6AE5, PBS01
	Beryllium MF6AE5, PBS01
	Zinc PBW01, MF6AE5, PBS01
	Copper PBW01, MF6AE5, PBS01
	Magnesium PBW01, MF6AE5, PBS01
	Manganese PBW01, MF6AE5
	Iron PBW01, MF6AE5
Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS01
	Iron PBS01
Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L, MF6AE5, PBW01, PBS01
	Selenium MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L
	Calcium MF6AE5
	Beryllium MF6AC0L
	Aluminum PBW01, MF6AE5
	Potassium PBW01, PBS01
	Iron PBS01
Blanks	ICP_AES

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF6AC0 Case 42764 Contract EPW09038 Region 6 DDTID 158613 SOW ISM01.3

Data Review Reports**Blanks**

Blanks	ICP_AES
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Arsenic LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Iron LCS, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3
Blanks	ICP_AES
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes. LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Beryllium LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Aluminum LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Potassium LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Copper LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L Iron LCS, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3
Blanks	ICP_AES
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. MF6AC0A, MF6AC0, MF6AC0D, MF6AC0S, MF6AF5, MF6AC0L Antimony MF6AC0A Iron MF6AC0, MF6AC0D, MF6AC0S, MF6AF5, MF6AC0L
Blanks	ICP_AES
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes. LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AD1, MF6AD2, MF6AD7, MF6AE2, MF6AC0L Barium LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AD1, MF6AD2, MF6AD7, MF6AE2, MF6AC0L
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.

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Blanks

Blanks	ICP_AES
	LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L, MF6AC0S
	Aluminum LCS
	Potassium LCS, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L
	Iron LCS, MF6AC0, MF6AC0D, MF6AC0S, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L

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Data Review Reports**Detection Limit**

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. MF6AE5, MF6AC0, MF6AC0D, MF6AD1, MF6AD2, MF6AD7, MF6AE0, MF6AE1, MF6AE2, MF6AF5
	Mercury MF6AE5 , MF6AC0 , MF6AC0D , MF6AD1 , MF6AD2 , MF6AD7 , MF6AE0 , MF6AE1 , MF6AE2 , MF6AF5

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Detection Limit

Detection Limit	ICP AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. MF6AE5, PBW01, PBS01, MF6AF2, MF6AF3, MF6AC0L, MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6ADI, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF5
	Calcium MF6AE5
	Potassium PBW01, PBS01
	Sodium MF6AF2, MF6AF3, MF6AC0L
	Selenium MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6ADI, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L
	Barium MF6AC9
	Cobalt MF6AC0L
	Aluminum PBW01, MF6AE5
	Beryllium MF6AC0L
	Antimony MF6AC0, MF6AC0D, MF6AC8, MF6AD0, MF6AD1, MF6AD2, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5, MF6AC0L
	Thallium MF6AC0
	Cadmium MF6AD1, MF6AD2, MF6AD7, MF6AE0, MF6AE1, MF6AE2, MF6AF3, MF6AC0L
	Iron PBS01
	Silver MF6AC0, MF6AC0D, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD5, MF6AD6, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AF2, MF6AF3, MF6AF5, MF6AC0L

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Data Review Reports**Duplicates**

Duplicates	ICP AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Calcium MF6AC0D
	Copper MF6AC0D
	Iron MF6AC0D
	Manganese MF6AC0D

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Matrix Spikes

Matrix Spikes	ICP_AES
NG053	The following ICP-AES samples are not qualified due to missing the required Post-digestion spike added in the Spike sample analysis. MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Iron MF6AC0S
Matrix Spikes	ICP_AES
NG10	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries less than 75%. Detected analytes with results greater than or equal to MDLs are qualified J-. Nondetected analytes are qualified UJ. MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Antimony MF6AC0S
Matrix Spikes	ICP_AES
NG14	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified. MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Arsenic MF6AC0S

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Data Review Reports**Serial Dilution**

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified U. MF6AC0, MF6AC8, MF6AC9, MF6AD0, MF6AD1, MF6AD2, MF6AD3, MF6AD4, MF6AD5, MF6AD6, MF6AD7, MF6AD8, MF6AD9, MF6AE0, MF6AE1, MF6AE2, MF6AF2, MF6AF3, MF6AF5
	Vanadium MF6AC0L
	Calcium MF6AC0L
	Barium MF6AC0L
	Zinc MF6AC0L
	Aluminum MF6AC0L
	Magnesium MF6AC0L
	Iron MF6AC0L
	Manganese MF6AC0L
	Lead MF6AC0L